

**European X-ray laser project XFEL Coupler Meeting**

**Goal: Prepare a recommendation for the X-FEL coupler design and development**

When: Nov. 25<sup>th</sup>-26<sup>th</sup>, 2003

Where: DESY, Room 1a, BAH (Biologische Anstalt Helgoland, at the DESY side)

Participants:

**DESY:** R. Brinkmann, S. Choroba, J. Hauschildt, D. Kostin, V. Katalev, R. Lange, A. Lebanc, L. Lilje, K. Ludwig, C. Martens, A. Matheisen, W.-D. Möller, C. Pagani, D. Proch, B. Schmidt, P. Schmueser, A. Schwarz, M. Seidel, S. Simrock , D. Trines, H. Weise, J. Wojtkiewicz, K. Zapfe,

**LAL:** T. Garvey, L. Grandsire, P. Lepercq, H. Jenhanni, M. Omeich, S. Prat.

#	Beginning	Talks	Speaker	talk time	discus-sion
	<b>Tuesday 25.11.2003</b>				
		<b>General</b>		[min]	[min]
1	9:00	Introduction, What are the decisions we have to take now for the X-FEL	W.-D. Moeller	15	5
2	9:20	X-FEL Linac Parameters	R. Brinkmann	15	15
3	9:50	TTF 3 Coupler test & operating results	D. Kostin	40	20
	<b>10:50</b>	<b>Coffee</b>		30	
		<b>Processing time</b>			
4	11:20	Coupler processing times at other labs	P. Lepercq	20	20
5	12:00	Residual gas analysis during processing at the TTF3 coupler and other labs	D. Kostin	20	20
	<b>12:40</b>	<b>Lunch</b>		90	
		<b>Vacuum</b>			
6	14:10	Effect of baking on high vacuum components	M. Seidel	20	20
7	14:50	Influence of different gas layers on the second. electron emission coefficient	D. Kostin	20	20
	<b>15:30</b>	<b>Coffee</b>		30	
8	16:00	Pumping limitations of the TTF3 coupler and its vacuum connections	J. Wojtkiewicz	15	10
9	16:25	Limitations for the in situ baking of the coupler in the existing module design	J. Hauschild	15	20
10	17:00	Cold window vs. warm window from mech. design viewpoint	C. Martens	15	20
	<b>17:35</b>	<b>End</b>			

	<b>Wednesday 26.11.2003</b>				
		<b>Qext</b>			
11	9:00	Field enhancement in the coupler due to change of Qext with a three-stub-tuner for the different X-FEL operating conditions	A. Labance	30	20
12	9:50	Limitations / performance of the existing tree stub tuner	V. Katalev	15	15
		<b>coax diameter 40 vs. 60 mm</b>			
13	10:20	Multipacting calculations and measurements on coupler tests	D. Kostin	15	15
	<b>10:50</b>	<b>Coffee</b>		30	
14	11:20	Commissioning of modules on test stand or in tunnel	W.-D. Moeller	15	15
	11:50	<b>Lunch</b>		90	
	13:30	Perspectives for industrialization for XFEL input couplers	S. Prat		60
	14:30	Discussion decisions and conclusions	T. Garvey		60
	15:30	<b>Coffee</b>			30
	16:00	preparing a recommendation	T. Garvey		60